

INCH-POUND

MIL-F-15733/4J
w/AMENDMENT 2
16 November 2020
SUPERSEDING
MIL-F-15733/4J
w/AMENDMENT 1
18 November 2005

MILITARY SPECIFICATION SHEET

FILTERS, RADIO FREQUENCY INTERFERENCE,
STYLE FL53

Inactive for new design after 14 May 1980.
For new design use MIL-PRF-15733/73.

This specification is approved for use by all Departments
and Agencies of the Department of Defense.

The requirements for acquiring the product described herein
shall consist of this specification sheet and [MIL-PRF-15733](#).

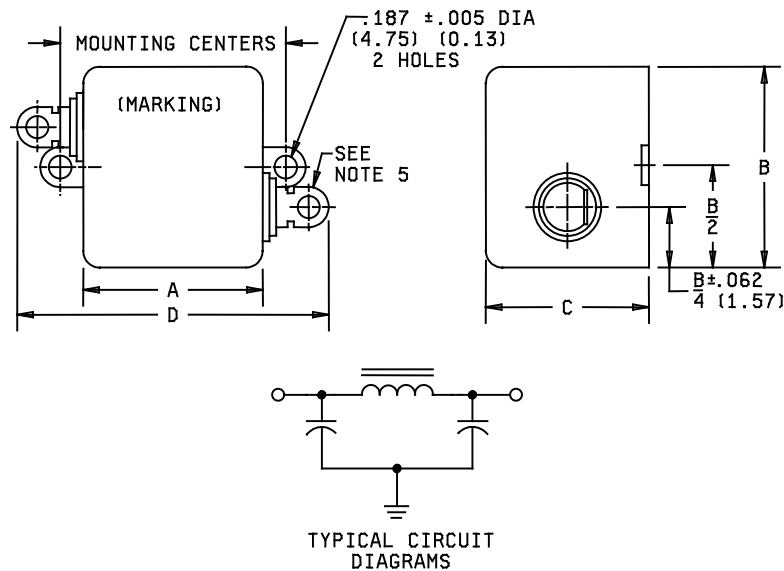


FIGURE 1. Case dimensions and circuit configuration.



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Dash number	Dimensions							Mounting center	
	A		B		C		D		
	Min	Max	Min	Max	Min	Max	Max	Min	Max
0001	1.688 (42.88)	1.812 (46.02)	1.188 (30.16)	1.312 (33.32)	.813 (20.65)	.937 (23.80)	3.406 (86.51)	2.109 (53.57)	2.141 (54.38)
0002	1.938 (49.23)	2.062 (52.37)	1.938 (49.23)	2.062 (52.37)	.813 (20.65)	.937 (23.80)	3.594 (91.29)	2.359 (59.92)	2.391 (60.73)
0003	1.938 (49.23)	2.062 (52.37)	1.938 (49.23)	2.062 (52.37)	1.063 (27.00)	1.187 (30.15)	3.594 (91.29)	2.359 (59.92)	2.391 (60.73)
0004	1.938 (49.23)	2.062 (52.37)	1.938 (49.23)	2.062 (52.37)	1.438 (36.53)	1.562 (39.67)	3.594 (91.29)	2.359 (59.92)	2.391 (60.73)
0005	2.438 (61.93)	2.562 (65.07)	1.938 (49.23)	2.062 (52.37)	1.438 (36.53)	1.562 (39.67)	4.094 (103.99)	2.922 (74.22)	2.954 (75.03)
0006	2.438 (61.93)	2.562 (65.07)	1.938 (49.23)	2.062 (52.37)	1.688 (42.86)	1.812 (46.02)	4.094 (103.99)	2.922 (74.22)	2.954 (75.03)
0007	2.438 (61.93)	2.562 (65.07)	1.938 (49.23)	2.062 (52.37)	2.063 (52.40)	2.187 (55.55)	4.094 (103.99)	2.922 (74.22)	2.954 (75.03)
0008	3.190 (81.03)	3.310 (84.07)	2.188 (55.58)	2.312 (58.72)	2.063 (52.40)	2.187 (55.55)	4.969 (126.21)	3.859 (98.02)	3.891 (98.83)
0009	3.126 (79.40)	3.250 (82.55)	2.188 (55.58)	2.312 (58.72)	2.063 (52.40)	2.187 (55.55)	4.906 (124.61)	3.796 (96.42)	3.828 (97.23)
0010	3.252 (82.60)	3.372 (85.65)	2.188 (55.58)	2.312 (58.72)	2.063 (52.40)	2.187 (55.55)	5.031 (127.79)	3.922 (99.62)	3.954 (100.43)

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are in parentheses.
3. Metric equivalents are given for general information only.
4. Circuit diagram is for information only.
5. Slot or hole opening acceptable for solder lugs.
6. Threaded stud terminals applicable to filters rated at 10 amperes and above (dash numbers 0004 through 0010).

FIGURE 1. Case dimensions and circuit configuration - Continued.

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Table I. Electrical characteristics.

Dash number	Circuit diagram	Rated voltage		Rated current (A)	Minimum insertion loss (dB) in accordance with MIL-STD-220 at +25°C 1/						
		V dc	V ac		.15 MHz	.30 MHz	.60 MHz	1 MHz	10 MHz	100 MHz	1,00 0 MHz
0001	π	400	125	1	50	60	60	60	60	60	60
0002	π	400	125	3	50	60	60	60	60	60	60
0003	π	400	125	5	50	60	60	60	60	60	60
0004	π	400	125	10	50	60	60	60	60	60	60
0005	π	400	125	15	40	50	60	60	60	60	60
0006	π	400	125	15	50	60	60	60	60	60	60
0007	π	400	125	30	40	50	60	60	60	60	60
0008	π	400	125	30	50	60	60	60	60	60	60
0009	π	400	125	55	40	50	60	60	60	60	60
0010	π	400	125	55	50	60	60	60	60	60	60

1/ Full load insertion loss measurements shall be made at frequencies between 150 kHz and 10 MHz .
Above 10 MHz, insertion loss measurements shall be made under no-load conditions.

REQUIREMENTS:

Dimensions and configuration: See figure 1.

Case finish: In accordance with [MIL-PRF-15733](#). Pure tin finish is prohibited.

Operating temperature range: -65°C to +85°C.

Rated voltage: 125 volts ac; 400 volts dc.

Rated current: See table I.

Rated frequency: 0-400 Hz.

Insertion loss: In accordance with [MIL-PRF-15733](#) and table I.

Seal: In accordance with [MIL-PRF-15733](#).

Temperature rise: 25°C maximum for parts rated 10 amperes and less.
35°C maximum for parts rated greater than 10 amperes.

Insulation resistance: In accordance with MIL-PRF-15733 and the following:

Dash numbers 0001 through 0003 - 1000 megohms
Dash numbers 0004 through 0010 - 500 megohms

Maximum voltage drop: .5 volt.

Terminal strength: In accordance with [MIL-PRF-15733](#) and the following:

[MIL-STD-202-211](#) - Test condition A (pull): 9 pounds.
[MIL-STD-202-211](#) - Test condition B (bend): 5 bends.
[MIL-STD-202-211](#) - Test condition E (torque): (threaded stud terminals only).

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Resistance to soldering heat (solder lug terminals only): In accordance with [MIL-PRF-15733](#).

Salt atmosphere (corrosion): In accordance with [MIL-PRF-15733](#) and, [MIL-STD-202-101](#); test condition A.

Shock (specified pulse): In accordance with [MIL-PRF-15733](#) and, [MIL-STD-202-213](#); test condition I.

Vibration, low frequency: In accordance with [MIL-PRF-15733](#).

Life: In accordance with [MIL-PRF-15733](#) and, [MIL-STD-202-108](#); test condition B (250 hr).

Part or Identifying Number (PIN): M15733/04-(dash number from figure 1 and table I).

NOTES:

Referenced documents. In addition to [MIL-PRF-15733](#), this specification sheet references the following documents:

[MIL-PRF-15733/73](#)
[MIL-STD-202-101](#)
[MIL-STD-202-108](#)
[MIL-STD-202-211](#)
[MIL-STD-202-213](#)
[MIL-STD-220](#)

Amendment notations. The margins of this specification sheet are marked with vertical lines to indicate modifications generated by this amendment. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations.

Custodians:

Army - CR
Navy - EC
Air Force - 85
DLA - CC

Preparing activity:
DLA - CC

(Project 5915-2020-006)

Review activities:

Army - AT, AV, MI
Navy - AS, CG, MC, OS, SH
Air Force - 19

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